SPRINKLER NOTES

- 1. SCOPE OF WORK: DEMOLISH EXISTING SPRINKLER SYSTEM IN THE AREA OF WORK. PROVIDE COMPLETE, HYDRAULICALLY CALCULATED AUTOMATIC SPRINKLER SYSTEMS THROUGHOUT THE AREA OF RENOVATIONS (WARD 4E OF THE VA MEDICAL CENTER). INSTALL FIRE SUPPRESSION SPRINKLER SYSTEMS AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH NFPA 13 AND VA FIRE PROTECTION STANDARDS. SPRINKLERS SHOWN ON DRAWINGS ARE FOR DESIGN INTENT ONLY. PROVIDE HYDRAULIC CALCULATIONS FOR THE NEW SYSTEM. PROVIDE ALL EQUIPMENT, LABOR AND MATERIAL FOR AN ACCEPTED AUTOMATIC SPRINKLER AND STANDPIPE SYSTEM, INCLUDING WATER FLOW ALARM SWITCHES, VALVE SUPERVISORY SWITCHES, CHECK VALVES, CONTROL VALVES, PIPING, HANGERS, SPRINKLER, AND ALL ASSOCIATED EQUIPMENT. IN AREAS WITH CEILINGS, ALL SPRINKLER PIPE SHALL BE CONCEALED ABOVE THE CEILINGS. BUILDING SHALL BE OCCUPIED DURING RENOVATIONS.
- 2. ANY INFORMATION CONFLICTS BETWEEN THE SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION. THE CONTRACTOR(S) SHALL NOT PROCEED WITH ANY WORK, EXCEPT AT THEIR OWN RISK, UNTIL CLARIFICATIONS OF THE CONFLICTS ARE ISSUED TO THE CONTRACTOR(S) BY THE ENGINEER.
- 3. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS ON THE DRAWINGS PRIOR TO THE EXECUTION OF THIS CONTRACT. LOCATION AND SIZES OF PIPING AND LIGHTING FIXTURES ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL SYSTEM COMPONENTS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES WITH THESE DRAWINGS TO THE ENGINEER IMMEDIATELY.
- 4. ALL AREAS ARE LIGHT HAZARD UNLESS NOTED ON THE DRAWINGS ..
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLS, DUCTS, STRUCTURAL MEMBERS, PIPES AND OTHER OBSTRUCTIONS ENCOUNTERED.
- 6. ALL FIRE PROTECTION SYSTEM CONTROL VALVES SHALL BE EQUIPPED WITH APPROVED VALVE SUPERVISORY SWITCHES. ALL INSPECTOR'S TEST, DRAIN AND CONTROL VALVES SHALL BE PROVIDED WITH VALVE TAMPER COVERS (LOCKOUT COVER) TO PREVENT TAMPERING. ALL LOCKS SHALL BE KEYED IDENTICAL TO OWNER'S REQUIREMENTS.
- 7. CONTRACTOR SHALL MAINTAIN AS MUCH HEAD ROOM CLEARANCE AS PRACTICAL BETWEEN BOTTOM OF SPRINKLER PIPE, FITTINGS, VALVES, AND SPRINKLER HEADS WITH THE FINISHED FLOOR IN ALL AREAS OF EXPOSED PIPE. IN NO CASE PROVIDE LESS THAN 7'-0" [2.1M] OF HEAD ROOM CLEARANCE.
- 8. PROVIDE HEAD GUARDS (CAGES) ON SPRINKLERS (ANY PART OF THE SPRINKLER) THAT IS INSTALLED AT OR BELOW 7'-0" [2.1M] AND IN AREAS SUBJECT TO
- 9. ALL AUXILIARY VALVES AND LOW POINT VALVES SHALL BE BALL VALVES.
- 10. THE TERM "PROVIDE" SHALL MEAN THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 11. THE TERM "REMOVE" SHALL MEAN THE CONTRACTOR SHALL DISCONNECT AND CLEAR FROM SITE.
- 12. ALL EQUIPMENT SHALL BE TESTED/APPROVED BY A NATIONAL TESTING LABORATORY AND INSTALLED PER THE LISTING AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. SPRINKLERS MUST BE FM APPROVED.
- 13. PIPING: ALL PIPE 2" [50MM] AND SMALLER SHALL BE STEEL PIPE SCHEDULE 40 WITH THREADED FITTINGS. ALL PIPE 2.5" [63MM] AND LARGER SHALL BE STEEL PIPE SCHEDULE 40 OR SCHEDULE 10.
- 14. HANGERS: INSTALL HANGERS PER NFPA 13.

15. SPRINKLERS:

SYSTEM SHUT-DOWN.

- 15.1. SUSPENDED CEILINGS: RECESSED PENDENT, UL APPROVED, FM APPROVED, QUICK RESPONSE. WHITE-PLATED WITH ESCUTCHEON, INSTALL CENTER OF TILE NO CLOSER THAN 12-INCHES FROM SUSPENDED CEILING SUPPORTS.
- 15.2. EXPOSED CONSTRUCTION: UPRIGHT TYPE, UL APPROVED, FM APPROVED, QUICK RESPONSE, BRASS FINISH.
- 16. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING NOTES.
- 17. REFLECTED CEILING PLAN SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES, CEILING HEIGHTS, AND FIXTURE LOCATIONS.
- 18. SMOKE COMPARTMENTS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF SMOKE AND FIRE BARRIER WALLS. FIRESTOP ALL PENETRATIONS IN RATED WALLS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- 19. CERTAIN SPRINKLER MAINS AND BRANCHLINES LOCATED WITHIN THE AREA OF WORK SERVE SPRINKLERS LOCATED OUTSIDE THE AREA OF WORK. IT IS CRITICAL THAT THE CONTRACTOR MAINTAIN SERVICE TO SPRINKLERS LOCATED OUTSIDE THE AREA OF WORK. COMPLY WITH NFPA AND VAMC REQUIREMENTS AND PROCEDURES FOR SYSTEM IMPAIRMENTS. SUBMIT A WRITTEN IMPAIRMENT PLAN/SCHEDULE TO THE COTR FOR APPROVAL PRIOR TO STARTING WORK. NOTIFY THE VAMC AND COTR AT LEAST 48 HOURS PRIOR TO ANY PLANNED

ABBREVIATIONS

AMP

ABV ABOVE ARCHITECT/ENGINEER (OF RECORD)

ABOVE FINISHED FLOOR AMERICAN NATIONAL STANDARDS INSTITUTE

AUTOMATIC SPRINKLER

AMERICAN WIRE GAUGE BUILDING

BOTTOM OF BEAM

BOTTOM OF JOIST CEILING

CLOSET

CONCRETE MASONRY UNIT COMMUNICATIONS

CONTINUED

CORRIDOR

DRY SPRINKLER EXTENDED COVERAGE SPRINKLER

ELECTRIC

END OF LINE RESISTOR EXISTING

FIRE ALARM CONTROL PANEL

FIRE DEPARTMENT CONNECTION GALLONS PER MINUTE

INCH

JANITOR'S CLOSET

LAY-IN ACOUSTICAL TILE MACH MACHINE

MINERAL INSULATED MNS MASS NOTIFICATION SYSTEM

MANUAL PULL STATION

MACHINE ROOM

NOTIFICATION APPLIANCE CIRCUIT

NFPA NATIONAL FIRE PROTECTION ASSOCIATION

NUMBER NUMBERS

NOT TO SCALE OPENING

PHASE PIPE SHAFT

POUNDS PER SQUARE INCH

QUICK RESPONSE ROOM

REFLECTED CEILING PLAN

SPKLR SPRINKLER STANDARD UPRIGHT SPRAY

STDP STANDPIPE

SF SQUARE FOOT SPD SURGE PROTECTION DEVICE

STO STORAGE

TERMINAL CABINET

TOJ TOP OF JOIST

UNO UNLESS NOTED OTHERWISE

VAC VOLTS ALTERNATING CURRENT

WP WEATHERPROOF

W/ WITH

SPRINKLER LEGEND

FLOOR CONTROL ASSEMBLY, SEE DETAIL

HOSE VALVE CABINET, RECESSED

RECESSED PENDENT SPRINKLER, QUICK RESPONSE

UPRIGHT SPRINKLER, QUICK RESPONSE

UPRIGHT SPRINKLER, QUICK RESPONSE, WITH GUARD

PENDENT SPRINKLER, STANDARD RESPONSE, WITH GUARD SIDEWALL SPRINKLER, STANDARD RESPONSE, WITH GUARD

ELBOW (FACING AWAY FROM VIEWER)

CONTINUATION MARK

HOSE VALVE

VALVE, OUTSIDE STEM & YOKE

VALVE, INDICATING BUTTERFLY

WATER FLOW ALARM SWITCH

VALVE TAMPER SUPERVISORY SWITCH

FIRE PUMP

SPRINKLER PIPE

START OF WORK

KEY NOTE

OH-1

HYDRAULIC NODE

OH-2 ORDINARY HAZARD GROUP 2

DASHED LINES INDICATE EXISTING PIPE/DEVICES

ORDINARY HAZARD GROUP 1

FIRE PUMP TEST DATA

TEST DATE: MARCH 06, 2010 CONDUCTED BY: JUDD FIRE PROTECTION, LLC

CHURN PRESSURE: 125 PSI FLOW AT 100%: 500 GPM PRESSURE AT 100% FLOW: 103 PSI



FULLY SPRINKLERED

Office of **Facilities**

Drawing Number

Department of Veterans Affairs

Management

SCHEMATIC DESIGN 15% SUBMITTAL

CONSTRUCTION DOCUMENTS 100% - FOR BID

02/01/2011

05/03/2010

Date

DAVID WRIGHT **CCRD PARTNERS** 3311 W. BROAD ST. RICHMOND, VA 23230 (804) 355-2067

CONSULTANTS:

STRUCTURAL JOHN HANCOCK STROUD-PENCE & ASSOC. 4198 COX RD., SUITE #110

GLEN ALLEN, VA 20107

(703) 481-8914

LIFE SAFETY FERNANDO ESCALANTE RHINO FIRE PROT. ENG. PLC 12359 SUNRISE VALLEY DR. SUITE #350 RESTON, VA 20191

(703) 476-5034

SEAL: GT OF CO



23 West Broad St., Suite 200 Richmond, Virginia 23220 Telephone: 8 0 4.3 5 3.3 0 5 1 **Z** Facsimile: 804.358.1442

CA PROJECT 00938.02

Approved: Project Director

Drawing Title

AND LEGEND

SPRINKLER GENERAL NOTES

WASHINGTON

VA MEDICAL CENTER 4E

PATIENT WARD EXPANSION

Project Title

Project Number

688-336

Building Number

CONSTRUCTION DOCUMENTS 100% SUBMITTA

CONSTRUCTION DOCUMENTS 95% SUBMITTA

DESIGN DEVELOPMENT 50% SUBMITTAL